

CLAIMS

1. A paper package wherein thick paper material having a waterproof thin film on its inner surface is cylindrically formed, its upper and lower edges are sealed and bent to form a top portion (35) and a bottom portion (24) opposite to each other, a front portion (30) and a back portion (38) opposite to each other, a pair of lateral surfaces (5, 25), triangular projections (21, 21) disposed upward and projected right and left are brought in close contact with the lateral surfaces (25, 25), triangular projections (22, 22) disposed downward and projected right and left are brought in close contact with the bottom portion (24) to form a square box shape, an insertion section (36) for inserting a straw is formed on the top portion (35), and the upper triangular projections (21, 21) are weakly bonded to the lateral surfaces (25, 25) by thermal processing.

2. A paper package wherein thick paper material having a waterproof thin film on its inner surface is cylindrically formed, its upper and lower edges are sealed and bent to form a top portion (35) and a bottom portion (24) opposite to each other, a front portion (30) and a back portion (38) opposite to each other, a pair of lateral surfaces (25, 25), triangular projections (21, 21) disposed upward and projected right and left are brought in close contact with the lateral surfaces (25, 25), triangular projections (22, 22) disposed downward and projected right and left are brought in close contact with the bottom portion (24) to form a square box shape, an insertion section (36) for inserting a straw is formed on the top portion (35), and the upper triangular projections (21, 21) are sealed and wrapped around the lateral surfaces (25, 25) with a film (40).

3. A paper package wherein thick paper material having a waterproof thin film on its inner surface is cylindrically formed, its upper and lower edges are sealed and bent to form a top portion (35) and a bottom portion (24) opposite to each other, a front portion (30) and a back portion (38) opposite to each other, a pair of lateral surfaces (25, 25), triangular projections (21, 21) disposed upward and projected right and left are

brought in close contact with the lateral surfaces (25, 25), triangular projections (22, 22) disposed downward and projected right and left are brought in close contact with the bottom portion (24) to form a square box shape, an insertion section (36) for inserting a straw is formed on the top portion (35), and the pair of lateral surfaces (25, 25) has inverted V-shaped folds (27, 27) deciding triangular surfaces (27a, 27a) of isosceles triangular shape using base portions that are intersections formed by the lateral surfaces (25, 25) and the bottom portion (24) as base sides and vertical folds (29, 29) extending to vertexes (23, 23) of the upper triangular projections (21, 21) from vertexes (28, 28) of the triangular surfaces (27a, 27a).

4. The paper package according to any one of claims 1 to 3, wherein the paper package comprises a first horizontal fold (31) passing through both vertexes (28, 28) of the triangular surfaces (27a, 27a) and being in parallel with the bottom portion (24).

5. The paper package according to claim 4, wherein the first horizontal fold (31) passes through at least one of the front portion (30) and the back portion (38).

6. The paper package according to claim 4 or 5, wherein a distance (d1) between the first horizontal fold (31) and the bottom portion (24) is $1/2$ of a width (w1) of the bottom portion (24).

7. The paper package according to any one of claims 4 to 6, wherein the paper package comprises at least one auxiliary fold (32) having a distance corresponding to a natural number multiple of a width (w1) of the bottom portion (24) from the first horizontal fold (31), and being parallel with the first horizontal fold (31).

8. The paper package according to any one of claims 1 to 7, wherein the paper package comprises a second horizontal fold (34) passing through both vertexes (23, 23) of the upper triangular projections (21, 21) and being in parallel with the top portion (35).

9. The paper package according to claim 8, wherein a distance (d2) between the second horizontal fold (34) and the top portion (35) is $1/2$ of a width (w2) of the top portion (35).

10. The paper package according to claim 7 or 8, wherein the insertion section (36) is disposed on a back surface portion of the top portion (35) and the second horizontal fold (34) passes through the front portion (30).

5 11. The paper package according to any one of claims 1 to 10, wherein contents having viscosity of 10 mPa·s and more are packed.

12. A straw that is a straw (4b) removably secured to a straw insertion section (36) formed on a press-deformable package (20), comprising:

a cylindrical base section (12);

10 a stop section (6a) connected to an inner surface of the package to prevent detachment of the straw; and

at least one through hole (7a) being adjacent to the stop section,

wherein a total of an opening area of the through hole is equal and greater than a cross section of the base section in a diameter direction.

15 13. The straw according to claim 12, wherein the stop section (6a) has a taper portion with its outer diameter gradually decreasing to the through hole side from an opening for drinking.

20 14. The straw according to claim 12, wherein an maximum outer diameter of the taper portion of the stop section (6a) is smaller than a sum of an outer diameter of the base portion (12) and a thickness of a straw tube wall and greater than the outer diameter of the base portion.